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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
LY, ANH VU H	

ART UNIT	PAPER NUMBER
2616	

NOTIFICATION DATE	DELIVERY MODE
10/15/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/039,157	Applicant(s) SHAFFER ET AL.	
	Examiner Anh-Vu H. Ly	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-20,22-39 and 41-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-20,22-39 and 41-57 is/are rejected.
- 7) ☒ Claim(s) 10,14,33,39,41,43 and 46-57 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. This communication is in response to Applicants' amendment filed August 15, 2007.

Claims 1, 3-20, 22-39, and 41-57 are pending.

Claim Objections

2. Claims 10, 14, 33, 39, 41, 43, and 46-57 are objected to because of the following informalities:

With respect to claims 10 and 48, in line 1, insert --wherein-- before "freeing up".

With respect to claim 14, in line 1, insert --wherein-- before "determining".

With respect to claim 33, in line 1, insert --wherein-- before "the means".

With respect to claim 39, in line 3, replace "logic encoded on a computer-readable medium" with --a computer-readable medium encoded with computer executable logic--.

With respect to claims 41, 43, 46-47, and 49-57, in line 1, insert --wherein-- before "the logic".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1, 3-4, 15, 20, 22-23, 34, 39, 41-42, and 53 are rejected under 35 U.S.C. 102(b) as being anticipated by Grube et al (US Patent No. 5,387,905). Hereinafter, referred to as Grube.

With respect to claims 1, 20, and 39, Grube discloses a method for assigning call priority in a packet switched environment (Fig. 4), comprising:

receiving a request to establish a connection to a dialed number (col. 5, lines 36-44 and Fig. 4, the process begins when the system receives a call request from a source communication unit. The call request, as known in the art, includes the identity of the source communication unit, the type of call service desired; the identity of the destination communication units, and a message);

determining a priority for the connection based on the dialed number and generating a priority certificate based on the priority (col. 4, lines 57-61 and col. 6, lines 30-32, the packets are first processed to include the indicia of priority associated with the source unit and message. Herein, the indicia of priority is the priority certificate and generated as a function of the priority of the call request, e.g., emergency call);

attaching the priority certificate to the communication packets of the connection (col. 6, lines 32-35, with the indicia of priority appended, the packets are then routed via the LAN network to the controlled devices in the sites); and

establishing the connection based on the priority (Fig. 5, block 506, route processed message to destinations).

With respect to claims 3, 22, and 41, Grube discloses that processing the communication packets based on the priority certificate (Fig. 5, block 512, forward message with the greatest indicia of priority to the destination).

With respect to claim 4, 23, and 42, Grube discloses that wherein the certificate provides the communication packets with a higher priority to CPU threads processing communication packets for the connection (Fig. 5, block 508, the CPU threads of the controlled device processes received message with greatest indicia of priority first).

With respect to claims 15, 34, and 53, Grube discloses determining resources required to establish the requested connection (Fig. 4, block 406) and provide the connection with priority to the needed resources (Fig. 4, block 416).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-6, 18-19, 24-25, 37-38, 43-44, and 56-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube in view of Kawahata et al (US 2001/0014095 A1). Hereinafter, referred to as Grube and Kawahata.

With respect to claims 5, 24, and 43, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose increasing the priority of network voice packets associated with the connection relative to other packets. Kawahata discloses that the priority of the voice packets of a connection is increased relative to other packets (page 7, 131st paragraph). It would have been obvious to one having ordinary skill in the art at the time the invention was made to increase the priority of voice packets of a connection in Grube's system, as suggested by Kawahata, to minimize delay and loss of voice packets when a congestion occurs.

With respect to claims 6, 25, and 44, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose certificate provides the communication packet with a higher priority to access gateway trunks relative to other connections. Kawahata disclose a translation table 29 for holding a trunk number corresponding to a dial number or a priority control special number (Fig. 4). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide trunks to higher prioritized packets in Grube's system, as suggested by Kawahata, to minimize delay of voice packets when a congestion occurs.

With respect to claims 18-19, 37-38, and 56-57, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose monitoring end-point usage of augmented priority and modifying the priority of the connection based on end-point usage. Kawahata discloses that when the congestion is generated in IP network 16, the quality of a voice for the conversation is sometimes deteriorated (page 7, 125th paragraph. Herein, the quality of the

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conversation of a particular priority is monitored). A user of the extension A1 or C1 dials a priority control special number. The priority class for the calling between the extension terminal 11 and the extension terminal 14 can be increased (page 7, 126th and 128th paragraph. Herein, the priority of the connection is modified). It would have been obvious to one having ordinary skill in the art at the time the invention was made to increase the priority of voice packets of a connection when quality of the voice packets deteriorated in Grube's system, as suggested by Kawahata, to minimize delay and loss of voice packets when a congestion occurs.

5. Claims 7, 26, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube in view of Dupont (US Patent No. 5,729,542). Hereinafter, referred to as Grube and Dupont.

With respect to claims 7, 26, and 45, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose certificate provides the communication packet with a higher priority to access network bandwidth for voice quality relative to other connections. Dupont discloses a prioritization scheme to achieve expedited access by higher priority units and to increase overall throughput (col. 2, lines 56-59). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide network bandwidth to higher prioritized packets in Grube's system, as suggested by Dupont, to minimize delay of voice packets when a congestion occurs.

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6. Claims 8, 12-13, 17, 27, 31-32, 36, 46, 50-51, and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube in view of Lester et al (US Patent No. 6,745,043 B1).

Hereinafter, referred to as Grube and Lester.

With respect to claims 8, 27, and 46, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose notifying network users of a need to make resources available for a high-priority connection. Lester discloses that a pre-termination notification signal is generated on the lower priority communication link in order to notify the users that the communication link will be terminated shortly thereafter (col. 5, lines 15-18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to notify lower priority users of their terminated network resources in Grube's system, as suggested by Lester, to provide network resources for higher priority users in case of urgency.

With respect to claims 12, 17, 31, 36, 50, and 55, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose determining if adequate resources are available for the connection and if not available, queuing the connection as first to receive resources as they become available, and/or monitoring network resources to determine when sufficient resources are available to establish the requested connection. Lester discloses that when a lower priority communication link is not found, the communication signal is placed on hold until an open communication channel becomes available (col. 5, lines 10-13. Herein, the open communication channel must be monitored to determine its status). It would have been obvious to one having ordinary skill in the art at the time the invention was made to queue a

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connection in Grube's system, as suggested by Lester, to provide network resources to higher priority users as network resources become available in case of emergency.

With respect to claims 13, 32, and 51, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose queuing higher priority connections and pre-empting connections with a lower relative priority. Lester discloses that when a lower priority communication link is not found, the communication signal is placed on hold until an open communication channel becomes available (col. 5, lines 10-13). Further, Lester discloses that a pre-termination notification signal is generated on the lower priority communication link in order to notify the users that the communication link will be terminated shortly thereafter (col. 5, lines 15-18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to queue higher priority connections when network resources are not available and pre-empt lower priority connections in Grube's system, as suggested by Lester, to provide network resources to higher priority users in case of emergency.

7. Claims 9-10, 16, 28-29, 35, 47-48, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube in view of Uhlik et al (US Patent No. 6,600,914 B2). Hereinafter, referred to as Grube and Uhlik.

With respect to claims 9-10, 16, 28-29, 35, 47-48, and 54, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose determining whether adequate resources are available for the connection and/or identifying resources required; if not available, pre-empting other connections to free up resources for the connection; and establishing the

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connection using the freed-up resources; and wherein freeing up resources comprising downgrading quality of service parameters of the other connections. Uhlik discloses that the subscriber unit sends an emergency link request to the base station. If there are no available channels, the base station assigns a channel by disconnecting or otherwise downgrading an existing telephone call that is not an emergency call or degrading the bit rate of existing non-emergency calls, providing the freed channel to the emergency caller (col. 3, lines 14-20. Herein, available channels are required resources). It would have been obvious to one having ordinary skill in the art at the time the invention was made to determine resources, free up resources, and establish the connection in Grube's system, as suggested by Uhlik, thereby network resources are provided for higher priority users in case of emergency.

8. Claims 11, 30, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube and Uhlik further in view of Lester.

With respect to claims 11, 30, and 49, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose notifying affected users that their connections are subject to preemption. Lester discloses that a pre-termination notification signal is generated on the lower priority communication link in order to notify the users that the communication link will be terminated shortly thereafter (col. 5, lines 15-18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to notify lower priority users of their terminated network resources in Grube's system, as suggested by Lester, to provide network resources for higher priority users in case of urgency.

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9. Claims 14, 33, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube and Uhlik further in view of Hierholzer et al (US 2004/0109413 A1). Hereinafter, referred to as Grube, Uhlik, and Hierholzer.

With respect to claims 14, 33, and 52, Grube discloses a method for processing emergency call (Fig. 4). Grube does not disclose determining a path for the connection and determining whether adequate resources are available along the path. Hierholzer discloses that the resource manager has the information that data packets with the corresponding origin and destination will be transmitted over the transmission path concerned and further connections are established depending upon the available resources of the transmission path (page 1, 7th paragraph). It would have been obvious to one having ordinary skill in the art at the time the invention was made to determine network resources along a path of a connection in Grube's system, as suggested by Hierholzer, thereby quality of the connection can be effectively maintained.

Response to Arguments

10. Applicant's arguments filed August 15, 2007 have been fully considered but they are not persuasive.

Applicants argue in page 12 that Grube does not disclose receiving a request to establish a connection to a dialed number. Examiner respectfully disagrees. Grube discloses (col. 5, lines 36-44 and Fig. 4) that the process begins when the system receives a call request from a source communication unit. The call request, includes the identity of the source communication unit, the type of call service desired; the identity of the destination communication units, and a message.

Herein, the destination communication unit is the dialed number. Therefore, Grube clearly discloses receiving a request to establish a connection to a dialed number as recited in claim 1.

Applicants further argue in page 12 that Grube does not disclose determining a priority for the connection based on the dialed number. Examiner respectfully disagrees. First of all, as clearly disclosed by Grube that the call request includes source information, type of call service, and the destination information (col. 5, lines 36-44). Therefore, the priority of the message also corresponding to the priority of the destination units since they are part of a call request and serve as a compact representation of a service. Furthermore, Grube discloses (col. 4, lines 57-61 and col. 6, lines 30-32) that the packets are first processed to include the indicia of priority associated with the source unit and message. The indicia of priority refers to either the priority of the source or it refers to the priority of the message type, e.g., emergency call. Since, it is an emergency call then the destination communication units are specified as fire rescuers, police officers, and etc... during the call setup, as illustrated in Fig. 4. Therefore, the indicia of priority refers to the priority of the message also corresponding directly to the priority of the destination units, e.g., emergency numbers. Therefore, Grube clearly discloses determining a priority for the connection based on the dialed number as recited in claim 1.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to be 'S. Ly', with a long horizontal line extending to the right.

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